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CSIRO

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Sci - Chemistry

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AC TR - 14119

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Oct 55 CIS

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Multiple Scattering of Tracks and the Influence of  
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SLA Tr # 3033

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Order from NRCC \$1.50      NRCC C-3484

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151493

61-12637

1. Gas diffusion--Heat transfer
2. Title: Separation tube
- I . Clusius, K.
- II . Huber, M.
- III . Title: Swing...
- IV . Title: Therm.../...
- V . NRCC TT-913
- VI . NRCC C-3484
- VII . National Research Council of Canada

Office of Technical Services

(Physics--Thermodynamics, TT, v. 5, no. 8)

Radiation Damage and Diffusion Processes in the  
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\*NBS TT 70-57313

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SLA 59-20500

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5

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NIH 5-10

Sci - Med

May 58

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NIH 5-9

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May 58

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Sci-Mat  
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62-18067  
I. Fischer, E. O.  
II. Hafner, W.  
III. Title: Aromatic ...

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Another trans. is available from SLA \$1.10 as  
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DESCRIPTORS: Complexes, Metallic compounds,  
\*Metalorganic compounds, Transition elements,  
\*Benzene, \*Chromium.

For abstract see Technical Translations 7: 612, 1962.

(Chemistry--Organic, TT, v. 8, no. 8)

Office of Technical Services

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AEC Tr 2535

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AEC UCRL-Trans-630(L)

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Mar 62

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SLA 60-18096

Sci

Feb 62

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AEC Tr-5282

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Oct 62

~~10/15/62~~  
10/15/62

Optical Determination of the Temperature Dependence  
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Sci - Electronics, physics

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Sci - Electronics, physics, chemistry 39,507

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A. Krieg, 13 pp.

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Nov  
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NIH 2-28

Sci - Med

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Mar 58

Cyclopentadienyl-Metal-Carbonyl-Hydrides of  
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Wiberg, Egon, May, Adolf, Nöth, Heinrich and  
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TRANSFORMATION OF ALUMINUM HYDRIDE WITH  
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37refs  
Order from SLA \$4.60

TT-64-14925

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Another trans. is available from K-H \$3.00 as  
K-H-3564 [1963] 43p.

TT-64-14925

- I. Wiberg, E.
- II. May, A.
- III. Nöth, H.
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(Chemistry--Inorganic, TT, v. 11, no. 11)

Office of Technical Services

The Effect of Surface Reactions on the Formation of  
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<p>Fischer, E. O. and Hafner, W. DIBENZENE CHROMIUM. Pt. I on Aromatic Com- plexes of Metals. [1961] 5p. (1 fig. [refs.] omitted). Order from SLA \$1.10 62-10385</p> <p>Trans. of Zeitschrift für Naturforschung (West Germany) [1955] v. 10b, no. 12 [p. 666-668].</p> <p>DESCRIPTORS: Complex ions, Metallic compounds, •Metalorganic compounds, Transition elements, •Benzenes, •Chromium</p> <p>In the further development of the conception formed on Fe II (<math>C_6H_5</math>)<sub>2</sub>, that the aromatic systems with the transition elements, can form the penetration com- plexes, we succeeded in preparing a yellow, water- soluble dibenzene-chromium (II)-cation [<math>Cr(C_6H_5)_2</math>]<sup>+</sup>. It can be reduced into an uncharged brownish-black (Chemistry--Organic, TT, v. 7, no. 9) (over)</p>	<p>62-10385</p> <p>I. Fischer, E. O. II. Hafner, W. III. Title: Aromatic...</p> <p>Office of Technical Services</p>
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SLA 54-2859

NIH Tr 10-28

Sci - Medicine

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Oct 57

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BISI 5460

Navy Tr 1528/MRL-630

Sci - Chem

SLA 57-2705  
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AEC 3463

Sci - Nuc Phys

Jan 59

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Sci  
Nov 59

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Determination of the Effective Masses in InSb and  
InAs From Differential Thermovoltage Measurements,  
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SLA 57-1708  
A.C.S.I.L. Tr 858  
AEC -3415

Sci - Chemistry  
Jul 57

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On a Thermal Ion Source With Extremely Small  
Material Consumption, by H. Hintenberger,  
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ABC Tr 2469

Scientific - Chemistry  
- Physics  
Jun 56 CTS/dex

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HF2110  
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The Theory of the Anode Fall, V.  
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Arcs in Air, by W. Pez, K. H. Heckar.  
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NASA TT F-10,401

U. S. GOVERNMENT USE ONLY  
Sci-Mechanical, Civil  
Dec 66

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AEC ORNL-tr-1401

SLA TR S7-1347

Sci/Atmospheric Sciences  
Feb 67

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Sci - Chemistry  
Mar 1957 CIS/dex

45-277

(Physics--Solid State, TT, v. 10, no. 1)

### **Office of Technical Services**

63-17113

- I. Friedmann, H.
  - II. ATS-74Q67G
  - III. Associated Technical Services, Inc.,  
East Orange, N. J.

APPROVED FOR RELEASE: Tuesday, July 01, 2003 CIA-RDP91-00929R000100330039-3

Low Temperature Measurements of the Magnetic Change  
of ~~Rhenium~~ Resistance and the Reduced Kohler Dia-  
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6 pp.

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SLA Tr 57-2755

Sci

Jul 58

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Detection of Neutrons With an Indium Phosphide  
p-n Element, by R. Gremmelmaier, H. Welker, 6 pp.  
UNCL

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Mar 59

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CEA TR-A 920  
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Hydrogen-Like Model of the Valence in Semiconducting  
Compounds of the A<sup>III</sup>B<sup>V</sup> type, by W. Heywang, B. Seraphim  
*GERMAN*  
RUSSIAN, per, Zeit. F. Naturf., Vol. 11a, No. 6, 1956,  
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A.CSL Tr 906

\*Morris D. Friedman for LincolnLib  
(Will appear in SLA later)

Sep 57

Electrical Properties of Solid Solutions of the  
Form In(As<sub>x</sub>P<sub>1-x</sub>), by H. Weiss.

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A.C.S.I.L. Tr 907

Sci - Chemistry  
Jul 57

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X-Ray Photo-Effect in p-n Barrier Layers of  
GaAs, by H. Pfister, 9 pp. UNCLASSIFIED

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No 6, Jun 1956, pp 434-439. CIA 9030917

ACSL Tr 905

Sci - Phys  
Aug 58

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X-Ray Photo-Effect In p-n Barrier Layers Of GaAs  
by H. Phister.

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Oct. 62

Spectrum Analysis Investigations of the Starting Materials for Semiconducting A<sub>111</sub>B<sub>V</sub> Compounds, by E. Colling, 8 pp.

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SLA 57-3304

Sci - Physics  
Jan 58

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SLA Tr 57-1857  
S64 60-16224

Sci

Jun 58

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ACBIL Tr No 903

Sci - Chem  
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Theory of Thermal Conductivity of Isotropic  
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ACSL Tr 909

Sci - Phys  
Aug 58

70, 138

Organophilic Vermiculite, by A. Weiss  
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Vol. 11b, No. 8, 1956, pp 431-444  
CSIRO No. 7431

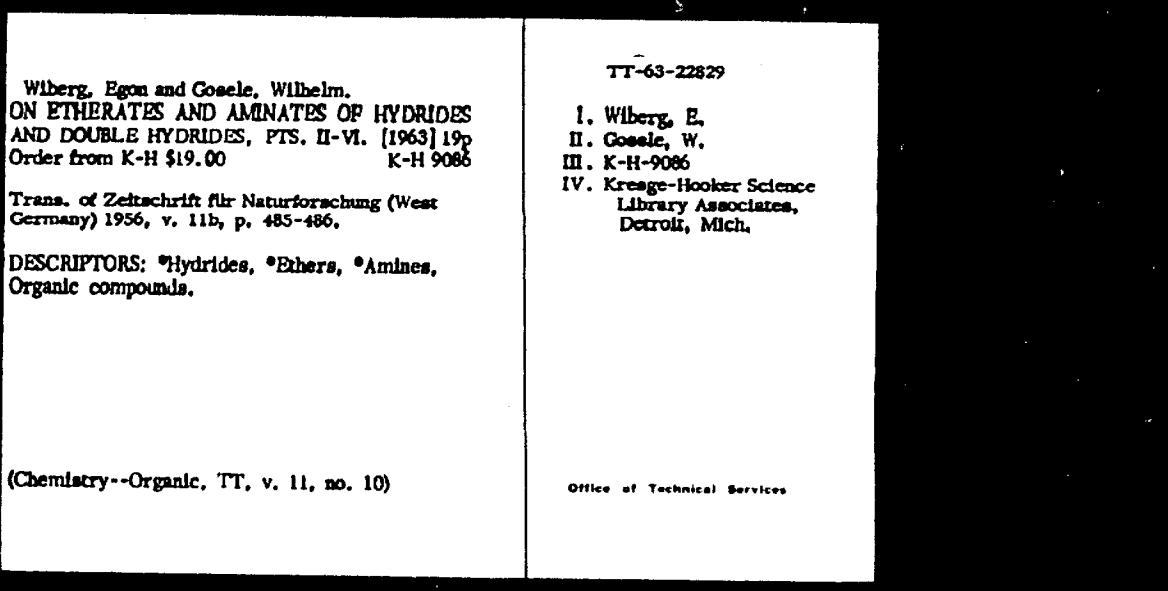
Sci -  
Aug 67

336-142

On Ethenates and Aminates of Hydrides  
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Gesam, per, Zeitschrift für Naturforschung,  
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GLA TR-65-10334

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Sci  
Jul 67



Production of Indium Arsenide and Gallium  
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ACSI H-7379  
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Sci - Chemistry  
RM Jan 61

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Design and Construction of Organs on an Acoustic Basis, by W. Lottermoser, 7 pp.

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SLA 57-2041

Sci  
May 58

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NRC-TT-1467      Uncl.

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II. Zirm, Konrad L. Translated by D. A. Sinclair (National Research Council of Canada, Ottawa), from Z. Naturforsch.; 11b: 535-8(1956). 10p.

biomed; translations

ND-48 NP RC

Unlimited

<p>Reimer, L. CRYSTALLITE SIZE AND COERCIVITY OF NI AND Fe LAYERS DEPOSITED ELECTROLYTICALLY AND FROM VAPOR. [1962] 14p. 6 refs. Order from SLA \$1.60</p> <p>Trans. of Z[eitschrift] für Naturforschung (West Germany) 1956, v. 11a, no. 8, p. 649-655.</p> <p>DESCRIPTORS: *Metal films, *Metallic crystals, Nickel, Iron, *Vapor plating, *Electroplating, Electron microscopy.</p> <p>(Metallurgy, TT, v. 8, no. 10)</p>	<p>62-16542</p> <p>I. Reimer, L.</p> <p>62-16542</p> <p>Office of Technical Services</p>	
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The Separation of Uranium Isotopes With the  
Separation Nozzle, by E. W. Becker, R. Schutte,  
3 pp.

GERMAN, per, Z. Naturforsch, Vol ~~X~~ XIIa, 1956,  
p 679.

AEC Tr 2660

Sci - Nuclear Physics  
Jan 57 CTS

42, 214

The Hall Generator With Feedback Control, by  
H. Weiss.

GERMAN, par., Z. fuer Naturforschung,  
XI(a), No 9, 1956, pp 684-688.

CSIRO

Sci - Engr  
May 62

196, 403

The Fractionating Tube: XVII. Preparation of the  
Rare Isotope  $^{22}\text{Ne}$  in a Purity of 99.6%, by  
K. Clusius, M. Huber, et al.

GERMAN, per, Zeit. Naturforschg, Vol 11a, 1956,  
pp 702-709. P911056867

AEC MLM tr 1375

Sci/Materials  
Mar 67

318,575

The Separation Tube, XVIII. Preparation of Pure  
Rare Isotopes of Argon,  $^{36}\text{Ar}$  and  $^{38}\text{Ar}$ , by  
K. Clusius, E. Schumacher, 11 pp.  
GERMAN, per, Zeit Naturforschung, 11 a, 1956,  
pp 709-715.  
AEC/MLN-Tr-1680-69

Sci/Nucl  
Dec 69

398,107

Grimminger, H. and Richter, H.  
STRUCTURE OF THIN SUBLIMATED LAYERS OF  
ARSENIC AND IODINE AT LOW TEMPERATURES.  
[1963] [12]p. 23 refs.  
Order from SLA \$1.60

63-14667

Trans. of Z[eitschrift für] Naturforschung (West  
Germany) 1956, v. 11B, p. 942-945.

DESCRIPTORS: \*Arsenic, \*Iodine, \*Sublimation,  
Phase studies, Low temperature research, Structural  
properties, Electron diffraction analysis.

As, Sb and I were sublimated in a low-temperature  
chamber at the temperature of liquid air and studied in an  
electron-diffraction tube at the same temperature as  
well as after heating to room temperature. Amorphous  
As layers showed distinct differences in the position of  
the interferences, which indicates a change in the  
(Physics--Solid State, TT, v. 10, no. 4) (over)

63-14667

I. Grimminger, H.  
II. Richter, H.

Office of Technical Services

Schmidt, Kurt.

DECAY AND MECHANISM OF GAS LUMINESCENCE  
USING EXCITATION BY FAST ELECTRONS  
(Abbildung und Mechanismus der Lumineszenz von  
Gasen bei Anregung durch Schnelle Elektronen). [1962]  
[29]p. (foreign text included) 19 refs.  
Order from SLA \$2.00

62-16024

Trans. of Z[eitschrift für] Naturforschung (West  
Germany) 1956, v. 11a [no. 12] p. 1023-1030.

DESCRIPTORS: \*Gases, \*Luminescence, Excitation,  
Electrons, \*Electron bombardment, Pressure,  
Spectrographic analysis,

The mechanism of excitation and quenching is investigated for gases (N<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>, CO<sub>2</sub>, Ne, Xe, Ar/N<sub>2</sub>, He/Ne, and mixtures of all gases with N<sub>2</sub>) bombarded by fast electrons (50 kev) at high pressure (up to 700 torr). Measurements were made primarily of spectra (Chemistry--Physical, TT, v. 8, no. 6) (over)

62-16024

I. Schmidt, K.

Office of Technical Services

On the Production of Metallic Germanium in a  
Condenser Tube. On the Transportation of  
Trichloride Germanium With Non-Saturated Compounds,  
by R. Schwarz, E. Baroulteky.

GERMAN, per, Angew Chem, No 2/2, p 280-285;  
Z Naturforsch, 1956, pp 105, 116.

X10

ASLIB-0854

Sci - Chem

Jun 59

89, 280

The Chemistry of Polyhalocyclopentadienes. XII.  
Tetrahalocyclopentadienes, by R. Riemschneider,  
et al., 5 pp.

GERMAN, per, Zeits fuer Natur, Vol XIb, 1956,  
pp 172-174.

S.L.A. Tr 1032/1956

Sci - Chemistry

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Schmeisser, M. and Schwarzmann, M.  
SILICON-DIBROMIDE  $(SiBr_2)_x$  AND ITS DERIVATIVES. [1962] 12p. 13 refs.  
Order from SLA \$1.60

62-16448

Trans. of Z[eitschrift für] Naturforsch[ung] (West Germany) 1956, v. 11b, no. 5, p. 278-282.

DESCRIPTORS: \*Silicon compounds, \*Bromides, Hydrolysis, Chlorination, Fluorination, Ammonia, Magnesium, Acetic acids, Chemical reactions, Hydrogenation, Grignard reactions.

It is possible to obtain a silicon subbromide of the composition  $(SiBr_2)_x$  from  $SiBr_4$  and magnesium in ether solution; at  $1200^{\circ}C$ . from  $SiBr_4$  and elementary silicon, besides the already known  $Si_2Br_6$ , originates the unknown until now  $(SiBr_2)_x$  as colophonium-like, solid substance well soluble in benzene and other organic solvents. It was possible to obtain it by sev- (Chemistry--Inorganic, TT, v. 8, no. 9) (over)

62-16448

I. Schmeisser, M.  
II. Schwarzmann, M.

Office of Technical Services

Experiments With Radioactive Indoleacetic Acid to  
Test the So-Called Diversion of the Growth Hormone  
Stream by Light, by Erwin Bunning, Hans J. Reisener,  
Friedrich Weygand, Helmut Simon, Johann Friedrich  
Klebe, 3 pp.

GERMAN, per, Z. Naturforsch, Vol XIb, 1956, pp 363-  
364.

AEC Tr 25%

Sci - Chemistry  
Aug 1956 CTS/dex

37,490

Cation Exchange and Intra-Crystalline Expansion  
Capacity in Minerals of the Mica Groups, by  
Armin Weiss, Albert Mehler, Ulrich Hofmann,  
11 pp.

GERMAN, per, Z. Naturforsch, Vol XIIb, 1956,  
pp 435-438.

AEC/NP-Tr-202

Sci -  
Mar 59

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Gross Striation and Periodate-Silver Urolophin Reaction in Different Types of Collagen, by K.  
Hahn, U. Hofmann, W. Grässmann, 25 pp.

GERMANY, ger, Z Naturforsch, Vol XII, 1956,  
pp 581-588.

NIH 7-12

Sci - Chemistry  
Aug 59

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Compared Inactivation of E Coli B by Organic Peroxide  
and UV Radiation With Special Reference to Heat and  
Zinken Photo-Reactivation, by Von Werner Stein, Wolf-  
gang Laskowski, 28 pp.

II,1CCXLII

GERMAN, no per, Z Naturforsch, Vol XIIb, 1956,  
pp 643-653. C 2 A 201.270

AEC Tr 2997

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Sci - Physics; Chemistry  
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Metabolism of Embryonic Cells and Cancer Cells, by  
O. Warburg, K. Gawehn, A. W. Geissler, 22 pp.  
UNCLASSIFIED

GERMAN, per, Z fuer Naturforschung, Vol XI-b, No 11,  
Nov 1956, pp 657-662.

NIH 2-8

Sci - Med

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Mar 58

<p>Hein, F. and Hecker, H. EFFECT OF ALKALINE METALS ON ARYLATED OXIDES. [1961] 5p. 2 refs. Order from SLA \$1.10</p> <p>Trans. of <u>Zelltechnik für Naturforschung</u> (West Germany) 1956, v. 11b, no. 11, p. 677-678.</p> <p>DESCRIPTORS: *Oxides, *Phosphine oxides, *Alkaline earth metals, Chemical reactions.</p> <p>(Chemistry--Physical, TT, v. 7, no. 8)</p>	<p>62-10415</p> <p>I. Hein, F. II. Hecker, H.</p> <p>62-10415</p> <p>201345</p> <p>Office of Technical Services</p>	
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Concerning the Determination of Lattice Constants by Electron Diffraction, by K. Mayerhoff.

GERMAN, per, Z. fuer Naturforschung,  
XII(a), No 1, 1957, pp 24-27.

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Sci - Electron  
Jun 62

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The Curare-like Action of Some  
Quaternary Thiazolium Salts, by  
J. Metzger, H. Kuhnen.  
GERMAN, per, Zeitschrift fuer  
Naturforschung, Vol 12B, No 1,  
1957, pp. 27-33.  
NTC 69-11771-060

Sci-B&M  
July 69

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The Magnetic Resistance Variation in InAs, by H.  
Weiss, 2 pp. UNCLASSIFIED

GERMAN, per, Z fuer Naturforschung, Vol XIIa,  
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Sci - Electronics

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Feb 58

<p>Grün, A. E. LUMINESCENT-PHOTOMETRIC MEASUREMENTS OF ENERGY ABSORPTION IN THE RADIATION FIELD OF ELECTRON SOURCES FOR THE UNIDIMENSIONAL CASE IN AIR (Lumineszenz -Photometrische Messungen der Energieabsorption im Strahlungsfeld von Elektronenquellen Eindimensionaler Fall in Luft). [1962] [26]p. (foreign text included) 12 refs. Order from SLA \$2.60 62-16031</p> <p>Trans. of Zeitschrift für Naturforschung (West Germany) 1957, v. 12a, no. 2, p. 89-95.</p> <p>DESCRIPTORS: *Electrons, Sources, Electron beams, Energy, Absorption, Air, Luminescence, Photometers, *Electron optics.</p> <p>The energy absorption <math>\alpha(z)</math> of air in the radiation field of a special electron source was measured as a function of <math>z</math>. (over)</p>	<p>62-16031 I. Grün, A. E. Office of Technical Services</p>
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The Production of Impact-Electrons (Knocked-Out  
Electrons) by Passing High-Energy  $\nu$ -Mesons Through  
Iron and Lead, by U. Pfeiffer, 11 pp.

GERMAN, per, Z Naturforsch, Vol XIIIa, 1957,  
pp 148-153.

AEC Tr-4744

Sci  
Oct 61  
List 59

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The Diffusion of Fission Xenon From Uranium Metal, by K. E. Zimen, L. Dahl, 4 pp.

GERMAN, per, Zeit fuer Naturforschung, Vol XIIa,  
1957, p 167-. 9092498

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Sci - Nuclear Physics  
Feb 58

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On the Superconducting Compounds of Niobium, by  
E. Schröder,  
GERMAN, per, Zeitschrift für Naturforschung, Vol XIIa,  
No 3, 1957, pp 247-256, 9072296.

ACSL No 1231

Sci

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On Impact Ionization in Germanium Single Crystals in  
the 4.2 - 10° K Temperature Range, by O. Finke and  
G. Lautz, 7 pp.

GERMAN, per Z. Naturforsch, Vol XII, 1957, pp 223-  
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SLA 57-3040

Sci  
Aug 58

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The Gyro-Relaxation Effect, by A. Schluter, 12 pp.

GERMAN, per, Z Naturforsch, Vol XIIa, 1957, pp 322-325.

AEC Tr 3146

Physics  
Sci - Space Research  
Apr 58

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On the Anticoagulant Action and Storage of  
Amylose Sulfuric Acid Esters, by H. Husemann,  
B. Plannemueller, H. Schill, W. Hertlein.  
GERMAN, per, Zeitschrift fuer Naturforschung,  
Vol 128, No 7, 1957, pp. 427-33.  
NTC 69-11772-06A

Sci-B&M  
July 69

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Further Development of the Experimental Arrangement  
for Emission Spectroscopy of Organic Substances in  
the Positive Column of a Glow Discharge. Observations  
on Chlorobenzene ( $C_6H_5Cl$ ), by H. Schuler, E. Lutz,  
7 pp.

GERMAN, per, Z Naturforschung, Vol XIIa, No 4,  
1957, pp 334-337.

SLA 59-10576

Sci - Chem  
Sep 59  
Vol 2, No 1

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AUTOCORRELATION EVALUATION AS A FUNCTIONAL PRINCIPLE  
OF THE CENTRAL NERVOUS SYSTEM, BY WERNER REICHARDT,  
22 PP.

GERMAN, PER, Z FUER NATURFORSCHUNG, VOL XIIB, NO 7,  
1957, PP 446-457.

NAVY TR 3227/APL 307

SCI - MED

SEP 62

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Secondary Electrons and -Photons of  $\mu^+$  -Mesons  
in Solid Materials, by K. Ott, H. Preuss, 31 pp.

GERMAN, per, Z fuer Naturforschung, Vol XIIa, No 6,  
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ABC Tr-4743

Sci  
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Mass Spectrometric Studies of the Reaction  $X^+ + H_2 \rightarrow$   
 $HX^+ + H$  (Massenspektrometrische Untersuchung der  
Reaktion  $X^+ + H_2 \rightarrow HX^+ + H$ ), by H. Gutbier, 19 pp.

GERMAN, per, Z Naturforsch, Vol XIIa, No 6,  
1957, pp 499-507. 9695776

SIA-59-10577  
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T-6-197 97770

Sci - Nucl Phys  
Sep 59  
Vol 2, No 1

On the Reaction Mechanism of Organic Molecules in  
the Positive Column of  $\text{NH}_3$  a Glow Discharge, by H.  
Schuseler, M. Stockburger, 13 pp.

GERMAN, per, Z fuer Naturforschung, Vol XIIa,  
No 6, 1957, pp 507-513.

SLA 59-10578

Sci  
Nov 59  
Vol 2, No 3

101,513